

### Claims

1. A system for control and supervision of residential control in a broadband network (10), characterized in that it comprises at least one of the following features provided by hardware and software broadband network dedicated means (M2, 22, 24, 26, 28, 30):

5 port control by feeding a protocol server (30) for auto-configuration of client network parameters with information from a membership policy server (28) providing that each network customer address can be connected to a unique name of a port for one customer inside the network;

10 class of service assurance for specific types of customer equipment (14) denying attempts to lease additional customer addresses through said protocol server (30) which keeps a record of all assigned addresses to said policy server (28):

forced direction for network login procedure by redirecting a customers browser to a predetermined login procedure when a network connected equipment is turned on, thus providing a controlled way of identifying each customer before using other services;<sup>or</sup>

15 abuse and anti-spoof protection by adjusting boarder gateway control routing tables in real time in respect of said protocol for auto-configuration; ~~and~~ thereby providing services differentiation for customers.

2. A system according to claim 1, characterized in that it announces helper addresses as dynamic routes providing instant fail-over if a daemon fails by withdrawing routes from a network service providers boarder gateway control table, whereby a lower prioritized daemon immediately takes control, and which provides that it is impossible for a customer to use an address without leasing it from said protocol server (30).

3. A system according to claim 1 ~~or~~ 2, characterized in that it adjusts boarder gateway protocol routes to customer devices/equipment (14) in real time according to protocol for auto-configuration of client network parameters, thus enhancing load balancing in network (10) fiber rings.

4. A system according to claim 1 ~~or~~ 3, characterized in that it comprises real time traffic analyzing detecting unauthorized servers run by a customer and software which provides network address translation.

5. A system according to claim 1 ~~or~~ 4, characterized in that said port control controls activation and deactivation of residential access ports.

6. A system according to claim 1 ~~or~~ 5, characterized in that said port control provides the assigning of a static network address to a specific port and MAC address.

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